

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan, Pin – 786602
Dist-Dibrugarh, Assam

AMENDMENT NO. 1 TO TENDER NO. SDG7780P22/07 dated 30.07.2021

This amendment is issued for the following:

AA) To amend the Technical Specifications (Annexure-B), BEC / BRC (Annexure – C) of the tender as shown below:

Clause no.	Earlier Clause	Amended Clause	Justification
Technical Specifications (Annexure-B)			
2.1 OVERALL DIMENSIONS AND WEIGHT OF THE COMPLETE UNIT:	f. The bidder shall submit GA (General Arrangement) drawing of the offered complete unit (including Tractor &Pumper Unit Trailercombination i.e. Tractor &Pumper Unit Trailercondition etc.) along with major dimensions of the complete unit and showing the position of all major machineries, items, control panels & their mounting on the Pumper Unit Trailer in the technical bid.	f. The bidder shall submit GA (General Arrangement) drawing of the offered complete unit (including Tractor &Pumper Unit Trailercombination i.e. Tractor &Pumper Unit Trailercondition etc.) along with major dimensions of the complete unit and showing the position of all major machineries, items, pump control panels & their mounting on the Pumper Unit Trailer in the technical bid.	Added control panel position to GA drawing.
10.0 CONTROL SYSTEM:	i. The control panel shall be installed on platform suitably located for a clear view of the pumps and the surrounding area. The platform shall be made of suitable safety grating and shall have suitable access ladder with fail safe gate and protective railings. The control panel shall be made of stainless steel	The control panel shall be installed in a suitable place and shall be easily accessible from ground. The control panel shall be made of stainless steel plates and should have provision of front opening with suitable hinges. Panel shall be weather proof (minimum IP-65). The necessary	For Operational requirement and convenience.

	<p>plates and should have provision of front opening with suitable hinges. Panel shall be weather proof (minimum IP-65) and shall have provision of front opening with proper side hinge. The necessary hinge, screw, nuts & bolts used in the panel should be of SS. There shall be proper illumination inside the panel. Necessary power supply for the panel DC/AC, inverter/converter shall be mounted inside the panel or a suitable location near the panel on the unit with proper enclosure.</p>	<p>hinge, screw, nuts & bolts used in the panel should be of SS. There shall be proper illumination inside the panel. Necessary power supply for the panel DC/AC, inverter/converter shall be mounted inside the panel or a suitable location near the panel on the unit with proper enclosure.</p> <p>The Provision for remote monitoring and control of the operational parameters shall be provided, at a minimum distance of 50m from the unit. All necessary cables and accessories shall be provided along with the unit.</p>	
6.1 DECK ENGINE II	<p>The offered engine shall comply with BS-V/EURO-V/TIERIII/equivalent or higher emission standard as applicable in the state of Assam in India at the time of delivery of the unit. The engine should be vibration isolated from the trailer by means of suitable anti-vibration mounting. Also, the bidder should confirm that sufficient space is available for maintenance of engine on the unit.</p>	<p>The offered engine shall comply with BS-V/EURO-V/TIERII/equivalent or higher emission standard as applicable in the state of Assam in India at the time of delivery of the unit. The engine should be vibration isolated from the trailer by means of suitable anti-vibration mounting. Also, the bidder should confirm that sufficient space is available for maintenance of engine on the unit.</p>	<p>For more participation in the tender as well as in accordance with the US NSPS Emission standard for CI engines.</p>
6.1 XII (6)	<p>Lube oil filters and oil pan sight gauge</p>	<p>Lube oil filters and dipstick for oil sump</p>	<p>For more participation in the tender.</p>

<p>7.1. TRIPLEX PUMP</p>	<p>The pump shall be horizontal, triplex, single acting reciprocating type plunger pump with replaceable plungers, valves and stuffing box packing with max Working Pressure of 15,000 psi. The pump should generally conform to API 674 and specifically pump speed should conform to API 674.</p>	<p>The pump shall be horizontal, triplex, single acting reciprocating type plunger pump with replaceable plungers, valves and stuffing box packing with max Working Pressure of 15,000 psi.</p>	<p>For meeting the delivery range specified in the tender, the pump cannot conform to API 674.</p>
<p>7.1. ii.</p>	<p><u>Plunger size:</u> The pump should be fitted with proper size of plungers to meet the following requirement:</p> <p>Maximum discharge = 12 BPM (1908 LPM) at 6800 psi (478 kg/cm²) pressure</p> <p>Minimum discharge = 2 BPM (318 LPM) at 15000psi (1055 kg/cm²) pressure.</p> <p>However, the unit shall be capable of pumping continuously upto 4-6 hours at a rate of 7-10bpm at 8000-10,000 psi. Bidder to categorically confirm to this clause.</p>	<p><u>Plunger size:</u> The pump should be fitted with proper size of plunger to meet the following requirement:</p> <p>Maximum discharge rate not less than 8.8 BPM at around 9000psi pressure (+/- 10%).</p> <p>Minimum discharge rate not more than 2bpm at around 15000psi pressure (+/- 10%).</p> <p>However, the unit shall be capable of pumping continuously minimum of 5-6 hours in the above range. Bidder to categorically confirm to this clause.</p>	<p>The maximum and minimum discharge rate revised to conform to the achievable pump rates of SPM, NOV, GD make triplex pumps, without replacing fluid ends.</p>
<p>7.1. vii.</p>	<p><u>Pump speed:</u> The maximum operating speed as per API 674.</p>	<p><u>Pump speed:</u> The maximum operating speed should not be greater than 450 RPM.</p>	<p>Since API 674 standard is removed, we keep pump speed as per prevalent practice for Well Servicing pump sets.</p>

<p>7.5</p> <p>i.</p> <p>ii.</p> <p>iii.</p>	<p>Discharge Manifold The discharge manifold connection of the pump shall consist of the following:</p> <p>(i) 2" X 15,000 Psi Plug valve.</p> <p>(ii) 2" X 15,000 Psi Non-Return Valve at the outlet of the pump.</p> <p>(iii) All treating iron, nipple & unions:</p> <p>These shall be of make FMC/SPM/MSI. All piping shall be suitable for Well killing pumping service.</p>	<p>Discharge Manifold The discharge manifold connection of the pump shall consist of the following:</p> <p>(i) 3" x 15000 Psi Plug valve. (with suitable cross over for connecting or fitting FIG 1502 connections to the discharge manifold).</p> <p>(ii) 3" x 15,000 Psi Non Return valve at the outlet of the pump.</p> <p>(iii) All treating iron, nipple & union: These shall be of make FMC/SPM/MSI/Parveen. All Piping shall be suitable for Well killing pumping service.</p>	<p>For meeting the pump delivery range as specified increased the pump discharge manifold valve sizes.</p> <p>Parveen make treating irons is also acceptable as OIL CMT has used Parveen make treating irons in the past and CMT department has recently procured treating irons from M/s Parveen Industries through GEM tender.</p>
<p>ANNEXURE - B 13 TREATING IRON / DISCHARGE MANIFOLD PAGE : 31</p>	<p>All high pressure iron shall be FMC or SPM iron. All piping shall be suitable for acid pump service. The following items are to be supplied with the unit along with easily accessible and convenient iron racks</p>	<p>All high pressure iron shall be FMC or SPM or MSI/ Parveen iron. All piping shall be suitable for acid pumping service. The following items are to be supplied with the unit along with easily</p>	<p>Removed acid pumping service as acid pumping is not in scope.</p>

	<p>mounted on the unit body. The irons racks should be designed in such manner that there is no slippage of the treating irons during mobilization of the units. Also, the height of these iron racks with the treating irons mounted should not be more than 6 feet from the ground level to facilitate an easy access to the same in a safe manner. The following pipes, hoses and fittings can be supplied with the unit:</p>	<p>accessible and convenient iron racks mounted on the unit body. The irons racks should be designed in such manner that there is no slippage of the treating irons during mobilization of the units. Also, the height of these iron racks with the treating irons mounted should not be more than 6 feet from the ground level to facilitate an easy access to the same in a safe manner. The following pipes, hoses and fittings can be supplied with the unit:</p>	<p>Parveen make treating irons is also acceptable as OIL CMT has used Parveen make treating irons in the past and CMT department has recently procured treating irons from M/s Parveen Industries through GEM tender..</p>
21.0	<p>The commissioning engineer should be available at site within 15 days of the intimation given by OIL for commissioning the unit.</p>	<p>The commissioning engineer should be available at site within 30days of the intimation given by OIL for commissioning the unit.</p>	<p>Time extended considering the present pandemic situation.</p>
<p>Part-A Annexure-B Clause No. 3.19 Page No.14 of 83</p>	<p>Vertical exhaust, well covered with thermal non-conducting material shall be provided in the Tractor. Moreover, the exhaust pipe shall be such that, rain water ingress shall not be possible.</p>	<p>Vertical exhaust with heat shield (well covered with thermal non-conducting material / perforated stainless steel etc. as per the Tractor manufacturer) shall be provided in the Tractor. Moreover, the exhaust pipe shall be such that, rain water ingress shall not be possible.</p>	<p>Incorporated as perforated stainless steel is also acceptable.</p>
<p>Part-A Annexure-B Clause No. 4.16 Page No.19 of 83</p>	<p>D-Value design calculation for suitability of the offered Tractor's "Fifth Wheel Coupling" & Trailer's "Kingpin" with the Tractor & Pumper Unit Trailer</p>	<p>D-Value design calculation for suitability of the offered Tractor's "Fifth Wheel Coupling" & Trailer's "Kingpin" with the Tractor & Pumper</p>	<p>Required at the time of supply.</p>

	combination shall be submitted along with the technical bid.	Unit Trailer combination shall be submitted along with the supply as under:	
a.	D-Value as per design calculation.	D-Value as per design calculation.	----do-----
b.	D-Value calculation sheet enclosed with technical bid.	D-Value calculation sheet.	----do-----
c.	Offered Tractor's "Fifth Wheel Coupling" is suitable up-to D- Value.	Tractor's "Fifth Wheel Coupling" is suitable upto D- Value.	Correction as observed.
d.	Offered Trailer's "Kingpin" is suitable up-to D- Value.	Trailer's "Kingpin" is suitable upto D- Value.	Correction as observed.
Part-A Annexure-B Clause No. 5.5 Page No.21 of 83	Not available	The Tractor & Trailer Pumper Unit shall be supplied together in unitized condition.	Incorporated for better clarity against the query of the bidder M/s. GOES GmbH in the pre-bid.
Inspection and Test Plan (ITP) 2. Pre-assembly Inspection (Stage-1) Page No.57 of 83	Dimensional, Visual Inspection of Truck and Trailer chassis and their components / subassemblies.	Dimensional, Visual Inspection of Tractor and Trailer chassis and their components / subassemblies. Note: Other content of this para remains unchanged.	Correction as observed.
9.0 HYDRAULIC SYSTEM : x.	x. Power flow block diagram from Engine for Fluid Pumping operation indicating all major components like Transmission/ PTOs, hydraulic pump drive, triplex pump, load pump, booster pump etc. etc.	x. Power flow block diagram from Engine for Fluid Pumping operation indicating all major components like Transmission/ PTOs, hydraulic pump drive, triplex pump, load pump, booster pump	Removed as no PTO required in the unit.

		etc. etc.	
10.0 CONTROL SYSTEM :	CONTROLS: 3. One (1) PTO engage/disengage control	CONTROLS: 3. One (1) PTO engage/disengage control	Removed as no PTO required in the unit.
20.1	<p>During the pre-despatch inspection visit of OIL's engineers, the supplier shall arrange comprehensive training at their manufacturing plant/works for a period of minimum 2 (two) weeks on Operation & Maintenance, Troubleshooting and Working Principle of following system/items used in the unit amongst other relevant subjects:</p> <ol style="list-style-type: none"> 1. Engine and its Electronic Controller System. 2. Transmission, PTO, and their control systems. 3. Brake & ABS - including their electronic control system. 4. Power assisted steering system. 5. Transmission, PTO shifters including different valves. 6. Hydraulic system 7. Control system 8. Maintenance and Operation of Pumping System 	<p>During the pre-despatch inspection visit of OIL's engineers, the supplier shall arrange comprehensive training at their manufacturing plant/works for a period of minimum 2 (two) weeks on Operation & Maintenance, Troubleshooting and Working Principle of following system/items used in the unit amongst other relevant subjects:</p> <ol style="list-style-type: none"> 1. Engine and its Electronic Controller System. 2. Transmission, PTO, and their control systems. 3. Brake & ABS - including their electronic control system. 4. Power assisted steering system. 5. Transmission, PTO shifters including different valves. 6. Hydraulic system 7. Control system 8. Maintenance and Operation of Pumping System 	Removed as no PTO required in the unit.

<p>10.0 CONTROL SYSTEM :</p>	<p>CONTROLS:</p> <p>3. One (1) air horn.</p>	<p>CONTROLS:</p> <p>3. One (1) Electric horn – DC powered from Battery of deck system.</p>	<p>Replaced Air horn with Electric horn, as there is no air compressor on the unit.</p>
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BEC / BRC (Annexure - C) BRC - Technical

<p>3.0 DELIVERY PERIOD:</p>	<p>INDIAN BIDDER: Materials must be despatched within (08) months from the date of placement of order by OIL. The date of clear LR or C/Note shall be considered as the date of delivery.</p> <p>FOREIGN BIDDER: Materials must delivered on FOB, Port of Shipment basis within (08) months from the date of opening of Letter of Credit by OIL. The date of unambiguous Bill of Lading (B/L) shall be considered as the date of delivery. Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be accepted. Bidders must categorically confirm the delivery period in their Technical Bid.</p>	<p>INDIAN BIDDER: Materials must be despatched within (12) months from the date of placement of order by OIL. The date of clear LR or C/Note shall be considered as the date of delivery.</p> <p>FOREIGN BIDDER: Materials must delivered on FOB, Port of Shipment basis within (12) months from the date of opening of Letter of Credit by OIL. The date of unambiguous Bill of Lading (B/L) shall be considered as the date of delivery. Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be accepted. Bidders must categorically confirm the delivery period in their Technical Bid.</p>	<p>Time extended considering the present pandemic situation.</p>
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BB) To extend the Bid Closing date, Technical Bid Opening date of the etender as under:

i) Bid Closing Date & Time : 06.10.2021 at 11:00 (IST)

ii) Technical Bid Opening Date & Time : 06.10.2021 at 14:00 (IST).

CC) All other terms and condition of the etender remain unchanged.

**Sd/-
(TUHIN ROY)
CMM-FD
MATERIALS DEPARTMENT
FOR GM- MATERIALS
FOR RESIDENT CHIEF EXECUTIVE**